

Reno County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/27/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 28 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Reno County economy.¹

These 28 sectors have a total direct output of approximately **\$1.19 billion** and support **3,765 jobs** in Reno County. Running the model for all 28 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Reno County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	3764.7	10.04%	\$258,660,669	10.22%	\$1,186,882,216
Indirect Effect	1456.7	3.89%	\$109,517,576	4.33%	\$226,171,793
Induced Effect	1154.5	3.08%	\$74,181,436	2.93%	\$139,731,248
Total Effect	6375.9	17.01%	\$442,359,681	17.48%	\$1,552,785,257

As shown in the above table, agriculture, food, and food processing sectors support **6,376 jobs**, or **17.01%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 28 agriculture, food, and food processing sectors is approximately **\$442.4 million**, or **17.48% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **1,101 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Reno County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1,101.0	\$123,495,189
Farm machinery and equipment manufacturing	529.2	\$203,505,142
Meat processed from carcasses	454.3	\$225,016,593
Wholesale trade	277.3	\$55,077,615
Landscape and horticultural services	272.0	\$16,067,358
Truck transportation	237.4	\$28,061,605
Grain farming	217.1	\$74,798,500
Support activities for agriculture and forestry	152.8	\$4,732,132
Paperboard mills	147.0	\$121,418,179
Management of companies and enterprises	141.8	\$25,008,226

The meat processed from carcasses sector directly contributes approximately **\$225.0 million** to the Reno County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Meat processed from carcasses	454.3	\$225,016,593
Farm machinery and equipment manufacturing	529.2	\$203,505,142
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1,101.0	\$123,495,189
Paperboard mills	147.0	\$121,418,179
Flour milling	81.6	\$97,914,262
Grain farming	217.1	\$74,798,500
Fluid milk manufacturing	96.5	\$68,196,378
Spice and extract manufacturing	115.1	\$62,782,261
Other animal food manufacturing	44.7	\$55,648,282
Wholesale trade	277.3	\$55,077,615

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Reno County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	48.6	\$47,322,872.16
Grain farming	217.1	\$74,798,500.06
Vegetable and melon farming	3.8	\$579,234.84
Fruit farming	2.4	\$157,894.60
Tree nut farming	0.3	\$38,077.06
Greenhouse, nursery, and floriculture production	35.0	\$3,726,066.59
Cotton farming	2.5	\$457,945.79
All other crop farming	100.5	\$7,322,906.49
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1101.0	\$123,495,185.85
Dairy cattle and milk production	35.5	\$11,040,202.14
Poultry and egg production	2.3	\$1,473,212.72
Animal production, except cattle and poultry and eggs	91.1	\$9,987,199.78
Commercial logging	3.4	\$88,477.28
Commercial hunting and trapping	3.2	\$63,433.49
Support activities for agriculture and forestry	152.8	\$4,732,132.43
Other animal food manufacturing	44.7	\$55,648,281.10
Flour milling	81.6	\$97,914,260.86
Frozen specialties manufacturing	97.5	\$34,966,899.87
Fluid milk manufacturing	96.5	\$68,196,380.62
Meat processed from carcasses	454.3	\$225,016,601.56
Bread and bakery product, except frozen, manufacturing	65.2	\$8,397,890.09
Frozen cakes and other pastries manufacturing	2.6	\$409,450.05
Spice and extract manufacturing	115.1	\$62,782,260.89
Paperboard mills	147.0	\$121,418,174.74
Farm machinery and equipment manufacturing	529.2	\$203,505,142.21
Food product machinery manufacturing	4.5	\$1,189,059.62
Veterinary services	54.9	\$6,087,118.15
Landscape and horticultural services	272.0	\$16,067,358.02

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Reno County, the retail sector was omitted.